



KROHN-HITE
CORPORATION

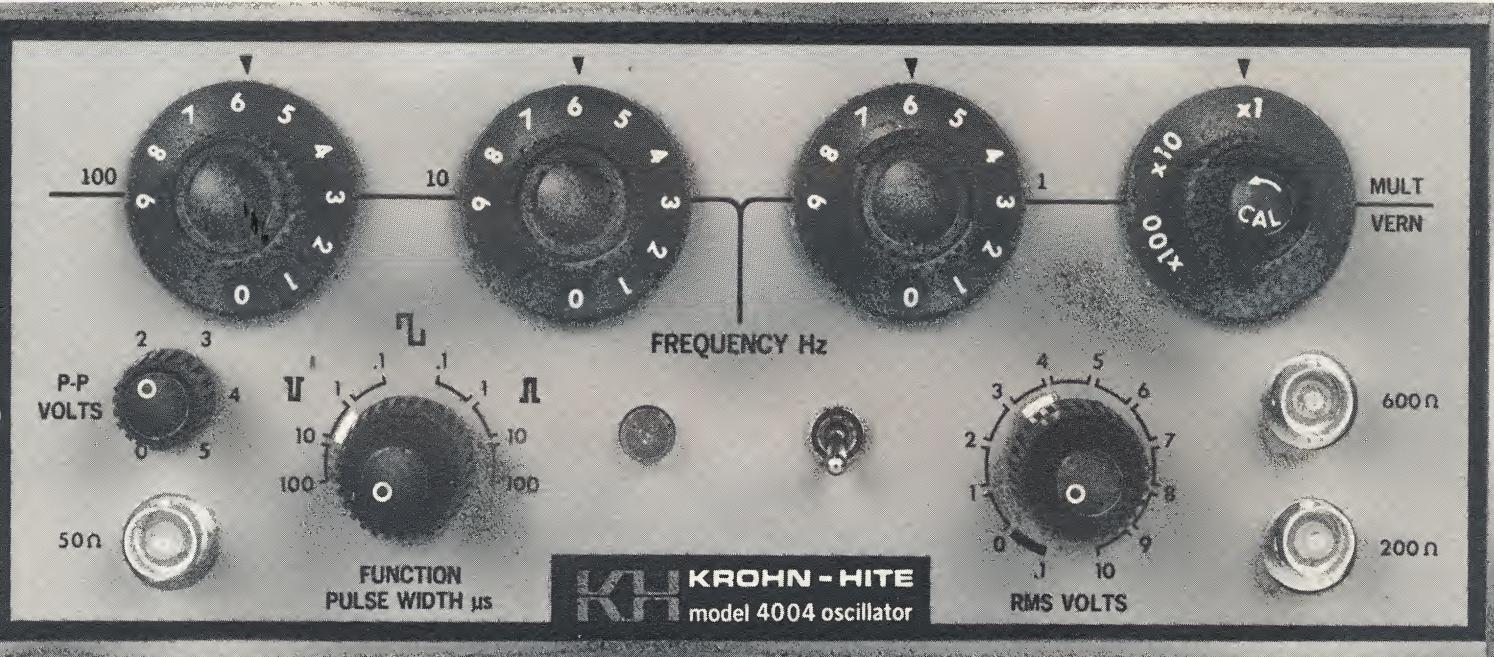
QUALITY ELECTRONIC INSTRUMENTS

**CONDENSED
CATALOG**

RC OSCILLATORS AND FUNCTION GENERATORS

NEW — and unequalled in performance K-H Series 4000 Solid State Oscillators

. . . the ONLY oscillators that eliminate problems of distortion, frequency response, frequency re-setting, tuning transients, and amplitude stability and calibration, for the most critical work at frequencies from 0.001 Hz to 100 kHz.



ACTUAL SIZE

- Frequency response: ± 0.01 db
- Harmonic distortion: 0.01%
- Amplitude calibration: $\pm 0.25\%$
- Amplitude stability: $\pm 0.01\%$ per hour $\pm 0.001\%$ for 10% line change
 $\pm 0.01\%$ cycle-to-cycle $\pm 0.005\%$ per degree C
- Quadrature sine wave output
- External synchronization
- Optional square wave and positive or negative variable-width pulse
- Programmable frequency and amplitude

Feature	Model	Price
Freq. range 0.1 Hz-100 kHz	4000	\$ 850
Freq. range 0.001 Hz-100 kHz	4010	925
0.001 Hz-100 kHz & amp. cal. acc. 0.25%	4020	1025
Square wave option	(4002, 4012, 4022)	add 95
Square wave & pulse option	(4004, 4014, 4024)	add 175
Programmable model	4030R	1335

OTHER K-H OSCILLATORS

Frequency Range	Oscillator Model	Frequency Accuracy (%)	Output				Distortion (%)	Shipping Weight (lbs.)	Price
			MW	Load (Ohms)	Open-Circuit Volts	Waveform			
0.001 cps to 100 kc	440-A*	1	100	1000	10	$\sim \text{V}\text{U}$	0.1	41	\$ 625
0.009 cps to 1.1 kc	400-C	2	100	1000	10	$\sim \text{V}\text{U}$	1	23	\$ 465
0.35 cps to 52 kc	420-C	2	100	1000	10	$\sim \text{V}\text{U}$	1	23	\$ 410
0.5 cps to 1 kc	440-B*	0.05	100	1000	10	\sim	0.1	41	\$1150
0.1 cps to 20 kc	450*	0.05	100	1000	10	\sim	0.1	47	\$1485
1 cps to 20 kc	452*	0.05	40	2000	10	\sim	0.02	49	\$1975
4.6 cps to 520 kc	430-AB	2	50	1000	10	\sim	1	22	\$ 245

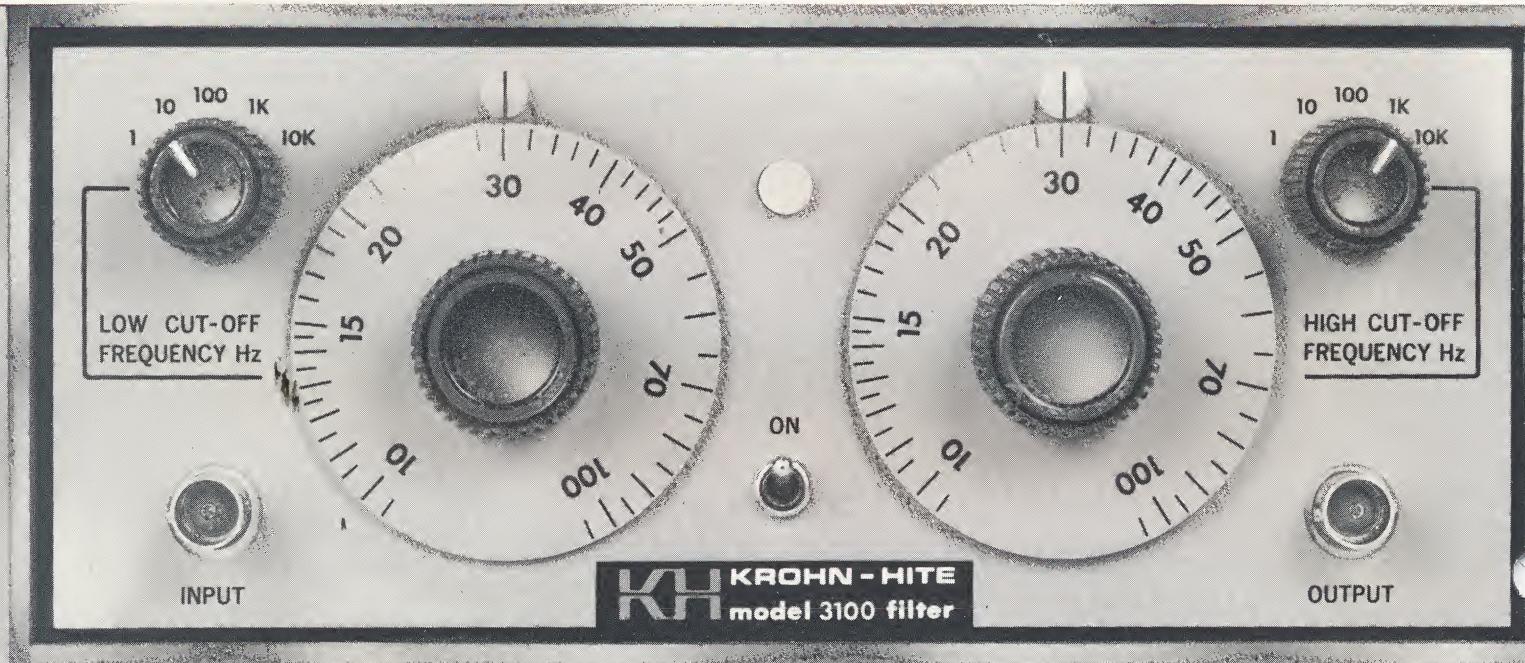
*Pushbutton operation.

VARIABLE ELECTRONIC FILTERS

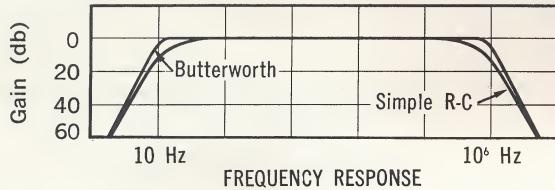
NEW - K-H Model 3100 Variable Band-Pass Filter. The first all silicon solid-state variable electronic filter to operate up to one megahertz!

- All silicon solid-state
- Frequency range: 10 Hz to 1 MHz
- Frequency response: maximally flat (Butterworth) or transient-free (simple R-C)
- Calibration accuracy: $\pm 10\%$
- Insertion loss: 0 db
- Attenuation slope: 24 db per octave
- Maximum attenuation: 80 db
- Hum and noise: 100 μ v
- Floating (ungrounded) operation

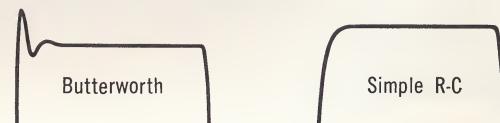
Price . . . Model 3100 . . . \$525



ACTUAL SIZE



TRANSIENT RESPONSE



OTHER K-H FILTERS

Function	Filter Model						
Band Reject							
Band Pass	330-B	330-N	310-C	312	314	315-A	335
High Pass							
Low Pass							
FREQUENCY RANGE	0.02 cps -2 kc	0.2 cps -20 kc	20 cps -200 kc	20 cps -200 kc	20 cps -200 kc	20 cps -200 kc	0.02 cps -20 kc
NULL TUNING RANGE	—	—	—	—	—	50 cps -80 kc	0.05 cps -8 kc
FREQUENCY ACCURACY	5%	5%	10%*	10%*	10%*	10%*	5%
HUM AND NOISE (rms)	0.1 mv	0.1 mv	0.2 mv	0.2 mv	0.2 mv	0.5 mv	0.1 mv
MAXIMUM ATTENUATION	80 db	80 db	60 db	60 db	60 db	60 db	80 db
OUTPUT VOLTS/AMPERES	10v/1ma	10v/1ma	5v/5ma	5v/5ma	5v/5ma	5v/5ma	10v/2ma
3-DB POINTS	—	—	—	3 mc	1 cps 3 mc	1 cps 1 mc	dc 200 kc
SHIPPING WEIGHT	35 lbs.	35 lbs.	22 lbs.	22 lbs.	22 lbs.	22 lbs.	42 lbs.
PRICE	\$595	\$550	\$375	\$450	\$525	\$525	\$975

*5% available at extra cost.

LABORATORY POWER AMPLIFIERS

Amplifier Model	DCA-10	DCA-50	UF-101A	Accessory Transformers	
				MT-55	MT-56
OUTPUT OUTPOWER Continuous	10 v-a	50 v-a	50 v-a	50 v-a	50 v-a
Instantaneous Peak	20 v-a	100 v-a	100 v-a	—	—
FREQUENCY RANGE	dc- 1mc	dc-500 kc	20 cps-20 kc	20 cps-20 kc	30 cps-1 mc
HARMONIC DISTORTION	0.1%	0.3%	0.005%	—	—
FREQUENCY RESPONSE	±1 db	±1 db	±0.5 db	—	—
MAX. INPUT VOLTS (rms)	10 v	13 v	0.6 v	106 v	106 v
VOLTAGE GAIN	10	10	200	—	—
MATCHED LOAD (ohms)	600-1000	200-330	1, 2, 4, 8, 225	0.2 to 5000	1 to 1000
MAX. OUTPUT VOLTS (rms)	105 o/c	30 o/c	135 o/c	500 v	115 v
MAX. OUTPUT CURRENT	130 ma	500 ma	7 A	15 A	7 A
NOISE REFERRED TO INPUT	0.5 mv	0.5 mv	0.01 mv	—	—
SHIPPING WEIGHT	40 lbs.	103 lbs.	111 lbs.	25 lbs.	25 lbs.
PRICE	\$525	\$750	\$595	\$225	\$225

AC POWER SOURCES AND MONITORS

The AC-601R Monitor lets you accurately observe the amplitude stability of a-c voltages from 400 cps to 5 kc. Input voltage range is 4 to 120 volts rms, output sensitivity 0.5 mv

for 0.01% input change. With suitable indicators, amplitude changes of 0.001% can be observed, and long-term stability measurements accurate to 0.01% per week are easily made.

Price \$850.00.

Power Source Model	LDS-115	LDS-500	LDS-1500	GS-20	GS-22 (2-phase)	GS-23 (3-phase)
OUTPUT VOLTS (rms)	0-115	0-500	0-1500	1-121*	1-121	1-121
OUTPUT AMPERES (rms)	0-7	0-15	0-15	10	10**	10**
FREQUENCY RANGE	20 cps to 20 kc	20 cps to 20 kc	20 cps to 20 kc	400 cps to 5 kc	400 cps to 5 kc	400 cps to 5 kc
OUTPUT POWER (v-a)	50	50	50	25	25**	25**
HARMONIC DISTORTION	0.02%	0.1%	0.1%	0.05%	0.05%	0.05%
AMPLITUDE STABILITY vs. Time	0.01% per hour	0.01% per hour	0.01% per hour	0.01% per week	0.01% per week	0.01% per week
vs. 10% Line Change	0.01%	0.01%	0.02%	0.002%	0.002%	0.002%
PHASE ACCURACY	—	—	—	—	0.25°	0.25°
PHASE STABILITY	—	—	—	—	0.1° per week	0.1° per week
OUTPUT REGULATION	1%	10%	2%	0.05%	0.05%	0.05%
HUM and NOISE	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
SHIPPING WEIGHT	225 lbs.	275 lbs.	361 lbs.	102 lbs.	170 lbs.	225 lbs.
PRICE	\$2175	\$2400	\$2975	\$2475	\$5475	\$7950

*Second fixed 10 volt output provided.

**Per phase.

REGULATED POWER SUPPLIES

TYPE	TRANSISTOR		TUBE			
MODEL	RS-361	RS-3610	UHR-220	UHR-225	UHR-240	UHR-245
OUTPUT DC VOLTS	0-36	0-36	0-500	140-500	0-500	140-500
MAX. DC CURRENT	1 a	10 a	200ma	200ma	500ma	500ma
VOLTAGE STABILITY	0.01% in 30 days		—	—	—	—
REGULATION (%)						
Line	0.0002	0.0002	0.003	0.08	0.003	0.08
Load	0.0005	0.001	0.001	0.002	0.001	0.002
DC IMPEDANCE (ohms)	0.00025	0.00005	0.01	0.02	0.005	0.01
AC IMPEDANCE (ohms)	0.005	0.002	0.05	0.1	0.05	0.05
HUM and NOISE (rms)	50 uv	50 uv	100 uv	100 uv	100 uv	100 uv
BIAS SUPPLY	—	—	0-150 v 5ma	—	0-150 v 5ma	—
HEATER SUPPLY	—	—	(2) 6.3 v ac, 5 a	(2) 6.3 v ac, 5 a	(2) 6.3 v ac, 10 a 5-13 v dc, 2.5 a	(2) 6.3 v ac, 10 a
SHIPPING WEIGHT	30 lbs.	115 lbs.	52 lbs.	50 lbs.	131 lbs.	123 lbs.
PRICE	\$850	\$1300	\$495	\$395	\$750	\$575

UHR-230R — Dual Power Supply Consisting of two Models UHR-220 Rack Mounted. Shipping weight 127 lbs. Price \$1000.

UHR-235R — Dual Power Supply Consisting of two Models UHR-225 Rack Mounted. Shipping weight 117 lbs. Price \$800.

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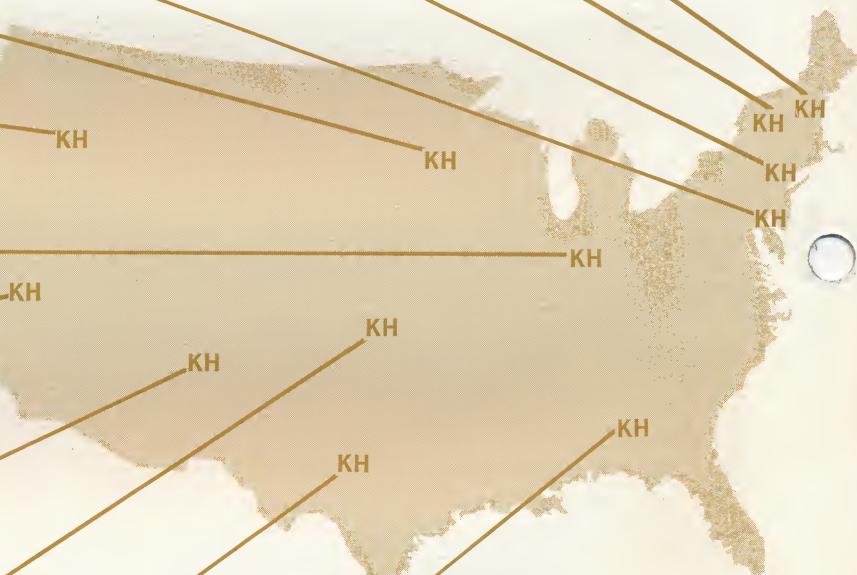
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